

Many modifications and other embodiments of the invention will come to mind to those skilled in the art to which this invention pertains having the benefit of the teachings presented in the foregoing descriptions and the associated drawings. Therefore, it is to be understood that the invention is not to be limited to the specific embodiments disclosed and that modifications and other embodiments are intended to be included within the scope of the claims. Although specific terms are employed herein, they are used in a generic and descriptive sense only and not for purposes of limitation.

THAT WHICH IS CLAIMED:

1. A fully integrated and programmable proximity/boundary detection device based on radio signals comprising at least
  - a) an enclosure to house said portable device.
  - b) an embedded programmable processing device
  - c) memory to hold data and programs to run said device
  - d) radio receiver to receive location signals and to process signals
  - e) hardware to execute control signals on command from said processor.
2. A device according to claim 1 further containing wireless communications hardware integrated into the portable device.
3. A device according to claim 1 further including a port necessary for software switches activated remotely

4. A device according to claim 1 containing hardware capable of sending correction signals outside of said enclosure.
5. A position proximity device providing means for two way communications comprising
- a) an antenna
  - b) a port
  - c) means for coding data, transmitting data and receiving data.
6. A method of limiting the three dimensional space occupied by an object, such method being controlled by a portable programmable proximity detector; said detector being capable of
- Reading coordinates from a radio wave system, storing these coordinates and operating on these coordinates to define a boundary, and providing the capability to measure the distance to a boundary and produce the necessary exciting correction signals
7. A method according to claim 6 further including the communication of data at least including the position
8. A method to communicate parameters such as identity, speed, location, direction to a plurality of portable proximity detectors
9. A method according to claim 8 whereby information is passed to a base station
10. A method according to claim 8 whereby each object is represented as a volume defined at a point acting as a moving space.
11. A device fully programmable on its own, but further enhanced by remote passing of boundary information from a base station.

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